

Title (en)  
Optical device

Title (de)  
Optische Vorrichtung

Title (fr)  
Dispositif optique

Publication  
**EP 1560271 A2 20050803 (EN)**

Application  
**EP 04024786 A 20041018**

Priority  
• JP 2004025062 A 20040202  
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Abstract (en)  
An optical device includes a base of ring shape, and an optical chip and a transparent plate both attached to the base. The upper surface of the base is formed with a tapered recess inclined downwardly from its flat portion toward the opening. A gap between the tapered recess and the transparent plate is formed with an adhesive layer. Even if a gap between the transparent plate and the flat portion of the base is narrowed, the adhesive layer with a great thickness present between the tapered recess and the lower surface of the transparent plate maintains the mechanical adhesion strength between the base and the transparent plate. A raised ring and a recessed ring prevent adhesive from entering a positioning hole and the opening. <IMAGE>

IPC 1-7  
**H01L 31/0203**; **H01L 31/0232**; **H01L 33/00**

IPC 8 full level  
**G03H 1/00** (2006.01); **H01L 21/50** (2006.01); **H01L 23/02** (2006.01); **H01L 27/14** (2006.01); **H01L 27/146** (2006.01); **H01L 31/02** (2006.01); **H01L 31/0203** (2006.01); **H01L 31/0232** (2006.01); **H04N 5/225** (2006.01); **H04N 5/335** (2011.01); **H05K 1/18** (2006.01); **H01L 25/16** (2006.01)

CPC (source: EP KR US)  
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